

DRILL HOLES

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BORDER REV. DATE: June 1, 2004

## PROJECT DESCRIPTION

## I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 187 (Old Georgetown Rd) / Woodmont Ave in Montgomery County. Two existing 20' pedestal poles shall be replaced with a single 23' steel pole with 60' mast arm. MD 187 (Old Georgetown Rd) is assumed to run in a north-south direction.

## II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA five-phase, fixed-time mode, with the MD 187 (Old Georgetown Rd) approaches running concurrently. The Exclusive/Permissive left turn phase shall remain in operation for the southbound approach of MD 187 (Old Georgetown Rd). The Exclusive left turn phase for the northbound approach MD 187 (Old Georgetown Rd) shall also remain in operation. The pedestrian phases across both legs of MD 187 (Old Georgetown Rd) shall remain on recall. The pedestrian phases across both legs of Woodmont Avenue shall also remain on recall. The Woodmont Avenue approach to the intersection shall also continue to run in its own phase.
- The existing full-traffic-actuated, eight-phase controller with L.A.U. and L.A.U. Panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

## III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by Montgomery County Forces. Contact Dr. Wilhelm DerMinassian at (240) 777-8795 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contact persons for District #3 (Montgomery County) are as follows:

Mr. Lee Starkloff  
Assistant District Engineer - Traffic  
Phone: (301) 513-7318

Mr. Wayne Mowdy  
Assistant District Engineer - Maintenance  
Phone: (301) 513-7304

Mr. Augie Rebish  
District Engineer - Utility  
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

Mr. Ed Rodenhizer  
Signal Shop  
410-787-7652

Mr. Sonny Bailey  
Sign Shop  
410-787-7670

Dr. Wilhelm DerMinassian  
Montgomery County  
240-777-8795

## EQUIPMENT LIST

## A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9025	27' mast arm pole, with 60' mast arm	1 EA
9570	Sheet aluminum signs to consist of: (ground mount)	6.25 SF
	R3-2 "NO LEFT TURN (Symbolic)" sign, (30" x 30")	1 EA
9571	Sheet aluminum signs to consist of: (mast arm)	33 SF
	R3-2 "NO LEFT TURN (Symbolic)" sign, (30" x 30")	1 EA
	R3-5R "RIGHT TURN ONLY" sign, (30" x 36").	2 EA
	R3-5L "LEFT TURN ONLY" sign, (30" x 36").	1 EA
	R10-11b "NO TURN ON RED" sign, (24"x24").	1 EA

## EQUIPMENT LIST (CONT.)

## B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	1 C.Y.
5001	5" white lead free reflective thermoplastic pavement marking.	10 L.F.
8002	12" red or green LED signal head section.	12 EA
8003	12" yellow LED signal head section.	7 EA
8028	Remove and dispose of existing equipment per assignment.	1 EA
8039	Remove and reset decorative brick.	30 S.F.
8040	Concrete for signal foundation.	5 C.Y.
8041	Wood sign supports 4"x4".	48 L.F.
8043	No. 6 AWG stranded bare copper ground wire.	100 L.F.
8049	3" schedule 80 rigid polyvinyl chloride conduit - trenched.	12 L.F.
8063	Install ground mounted sign. (Includes relocated signs).	21.25 SF
8064	Install overhead mounted sign.	33 SF
8070	Ground rod 3/4" dia. x 10' length.	1 EA
8078	Electrical cable - 5 conductor (No. 14 AWG).	45 L.F.
8079	Electrical cable - 7 conductor (No. 14 AWG).	600 L.F.
8082	Install steel pole and single mast arm.	1 EA
Neg.	Clean and paint mast arm and pole brown.	1 EA
Neg.	Contractor shall pick up mast arm pole from the SHA.	1 EA

## C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

OLD GEORGETOWN  
RUNS IN AN  
EAST-WEST  
DIRECTION

SEQUENCE OF OPERATION SHEET  
TRAFFIC OPERATIONS SECTION  
DIVISION OF TRAFFIC ENGINEERING  
MONTGOMERY COUNTY, MARYLAND

INTERSECTION: MD 187 (OLD GEORGETOWN RD) AND WOODMONT AVE NO.

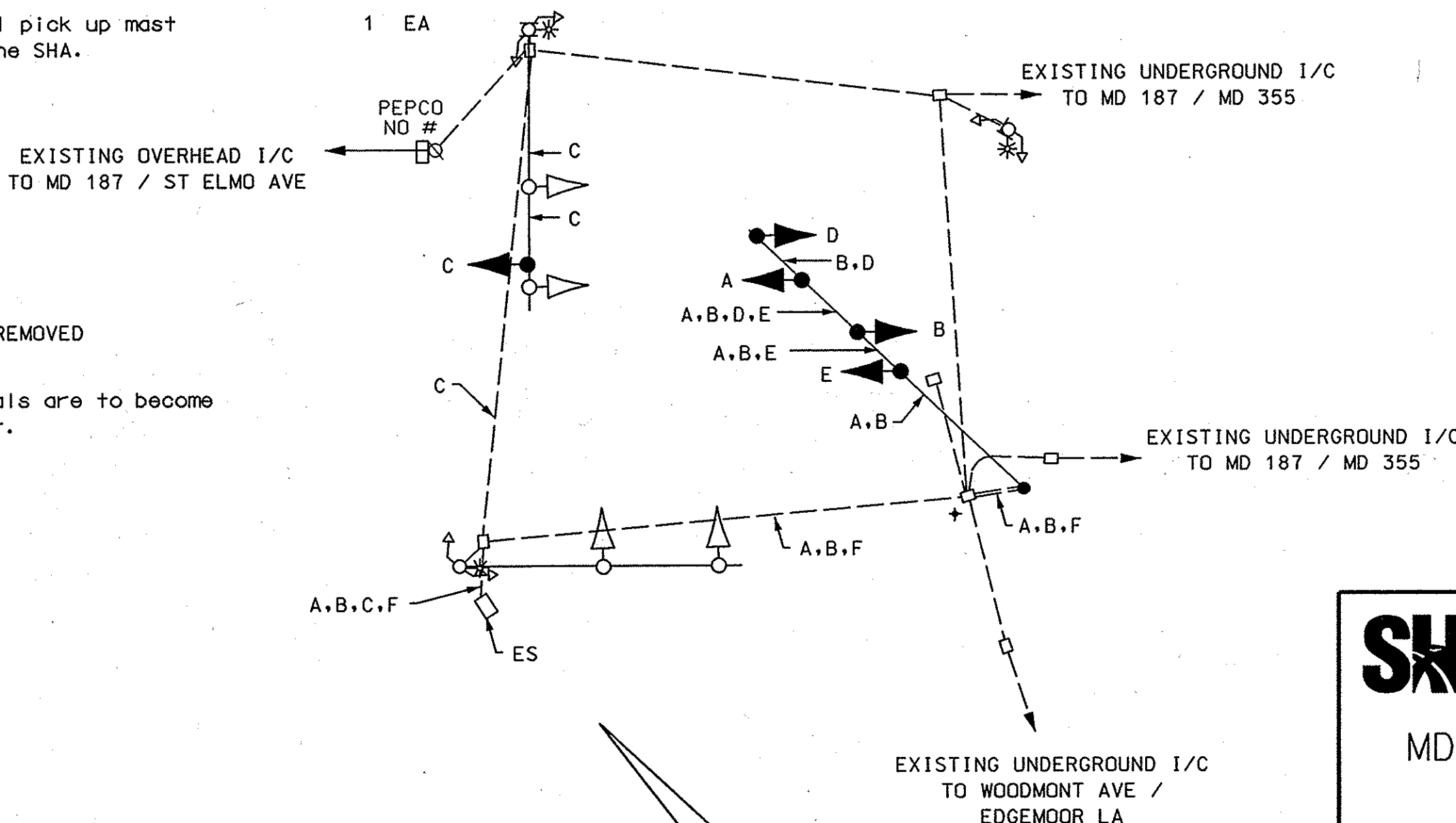
SIGNAL NO.	SIGNAL HEAD INDICATIONS			
	3,4,7,8,9	5,6	1,2	10-17
TOTAL:	5	2	2	8
LEGEND	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)
OPTICALLY LIMITED				
R RED				
Y YELLOW				
G GREEN				
ARROW				
FLASHING				

SIGNAL NO.	SEQUENCE OF OPERATION														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R
2	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R
3	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
4	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R
5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
9	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
10	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
11	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK
12	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK	WK
13	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
14	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
15	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
16	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
17	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE	2 & 5	ALL RED	2 & 6	ALL RED	4	ALL RED	1 & 5	ALL RED							

NOTES: OL "A" W/ B6

SUBMITTED:	CHECKED:	APPROVED:
IN SERVICE BY:	DATE:	TIME:

## WIRING DIAGRAM



## WIRING KEY

- A) 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- ES - EXISTING SERVICE TO BE MAINTAINED BY PEPCO
- + - GROUND ROD

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

MD 187 (OLD GEORGETOWN RD)  
AND WOODMONT AVENUE

SCALE NONE DATE 7/3/06 CONTRACT NO. AT7825185

DESIGNED BY R ZACHERL COUNTY MONTGOMERY  
DRAWN BY ROB CICCHINI LOGMILE 15018700.17  
CHECKED BY TIMS NO. H282  
F.A.P. NO. TOD NO.

TS NO. 4453A-61 DRAWING NO. 2 OF 2 SHEET NO. OF



TOD No.: AT782-45  
SHA No.: MOS74A5D/BSD

4921G1.dgn D6-53  
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